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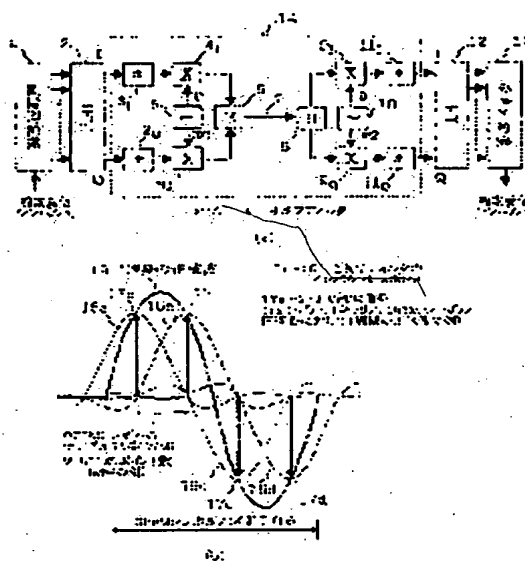
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(54) TRANSMITTER AND TRANSVERSAL FILTER

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a transmitter for transmitting an OFDM (orthogonal frequency division multiplexing) signal whose out-of-band radiation level is reduced under the condition that satisfies a Nyquist first reference and prevents the occurrence of an inter-code interference.

SOLUTION: In this transmitter, a serial/parallel converter 1 converts a transmission symbol string of one sequence into a parallel transmission symbol string of L (the number of subcarriers) sequences. An IFT 2 converts the parallel transmission symbol string of L sequences into an OFDM signal. I and Q channel signals of conversion results are subjected to spectral shaping by root rolloff filters 3I and 3Q, and then, inputted to multipliers 4I and 4Q to be orthogonally modulated. In a receiver side, I and Q channel signals of orthogonal demodulation signals outputted from multipliers 9I and 9Q are subjected to spectral shapings by root rolloff filters 11I and 11Q and then inputted to an FT part 12.



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